The following links were shared during the chat:

- Can Virtual Reality Really Be Used within the Lecture Theatre? [https://stel.bmj.com/content/early/2018/03/02/bmjstel-2017-000295.abstract](https://stel.bmj.com/content/early/2018/03/02/bmjstel-2017-000295.abstract)
A.J. Kleinhekse @AJKleinhex 7 hours ago
I’m so deeply disappointed that I can’t join in on the sim fun in #medchat tonight! Coming from a background in virtual patient dev I was really looking forward to it. Unfortunately, I’m feeling under the weather.

MedEd Chat @MedEdChat 7 hours ago
Topic 1: How can simulation with virtual reality enhance #med? #medchat

Rachel Salas MD @RachelSalasMD 7 hours ago
@MedEdChat @HopkinsMedicine @AANMember meded #medchat

Gary Beck Dallaghan @GLBDallaghan 7 hours ago
@MedEdChat T1 From what little I know about it I’ve read that the VR simulations allow for more life like scenarios where you can make mistakes without doing harm #medchat

Rachel Salas MD @RachelSalasMD 7 hours ago
@MedEdChat I would love to include this for a more real feel for learners #medchat

Dr. Sateesh Arja @ArjaSateesh 7 hours ago
@MedEdChat Mededchat T1 Virtual reality simulation is very useful to develop clinical knowledge and clinical reasoning and managing the patient in a time frame. Not only we can foster these, we can also assess clinical reasoning of trainees using virtual reality simulation. #mededchat

Gary Beck Dallaghan @GLBDallaghan 7 hours ago
@ArjaSateesh @MedEdChat T1 How is this different from hiring standardized patients to act out scenarios? They can be more spontaneous than a program so wouldn’t that be more realistic? #medchat

Rachel Salas MD @RachelSalasMD 7 hours ago
@GLBDallaghan @ArjaSateesh @MedEdChat Can accommodate more diversity in the patients. #medchat

Dr. Sateesh Arja @ArjaSateesh 7 hours ago
@SalemSamer @MedEdChat T1 not only patient safety, but also less availability of patients to teach and reduced number of training hours, Virtual reality plays important role in training residents. It is also very good tool for debriefing and providing feedback #mededchat

MedEdBot @MedEdBot 7 hours ago
RT @MedEdChat: We will assume that all of your tweets during #medchat are your own during this hour unless otherwise stated #meded

Dr Samer Al-Bothaigi @SalemSamer 7 hours ago
simulation give u a typical scenario for a skill ,however the weather is not always sunny ,sometimes it. Is rainy and stormy ! So there should be levels with from easy to difficult simulation session #medchat
RT @MedEdChat: T1 about to come up in a few moments #meded #mededchat

RT @MedEdChat: Topic 1: How can simulation with virtual reality enhance #meded? #mededchat

RT @MedEdChat: Topic 1: How can simulation with virtual reality enhance #meded? #mededchat

RT @MedEdChat: Topic 1: How can simulation with virtual reality enhance #meded? #mededchat

T3 Here are some resources for teaching as well as ideas for assessment https://t.co/OR7BxpAVAH https://t.co/cCMgZdzN...

RT @ArjaSateesh @SalemSamer T1 How so with debriefing and feedback? Can you explain how that works with VR? #mededchat

@SalemSamer @MedEdChat T1 not only patient safety, but also less availability of patients to teach and reduced number of t...

Sorry to hear that. Tweet #MedEdChat when you feel better soon!

Simulation should be the first step for skills learning #mededchat

This was an interesting take on VR in #meded https://t.co/SjaMAyRvFe #mededchat

RT @MedEdChat: Topic 2: Many think VR is superior to using standardized patients. What are your thoughts? #mededchat #meded
Jennifer K. Chen, MD FAAP @DrJenChen4kids 7 hours ago @MedEdChat #mededchat T1: Preclinical teaching anatomy, clinical to model stressful situations or procedures with low risk of anyone getting hurt! Tagging @Drtoddchang to chime in because this is part of his research!

Dr. Sateesh Arja @ArjaSateesh 7 hours ago @MedEdChat @SalemSamer T1 based on students’ performance and students’ performance is recorded, faculty members can give feedback and there is no time constraint #mededchat

@AMTUTMB @amtutmb 7 hours ago RT @MedEdChat: Topic 1: How can simulation with virtual reality enhance #med? #mededchat

Dr Samer Al-Bothaigi @SalemSamer 7 hours ago #mededchat Simulation need alot of fund and money I think patient safety deserve this money spending

Dr Samer Al-Bothaigi @SalemSamer 7 hours ago RT @ArjaSateesh: @MedEdChat @SalemSamer T1 based on students’ performance and students’ performance is recorded, faculty members can give f...

Geewhiz @Geewhiz34289923 7 hours ago RT @MedEdChat: Topic 1: How can simulation with virtual reality enhance #med? #mededchat

Dr Samer Al-Bothaigi @SalemSamer 7 hours ago RT @SalemSamer: #mededchat Simulation need alot of fund and money I think patient safety deserve this money spending https://t.co/YgrCN4...

Dr. Kirsten Brown @DrKirtyBrown 7 hours ago As an #anatomy professor I'm disappointed I can't discuss the #mededchat tonight. Alas I'm currently getting dirty looks form SO on this #ValentinesDay

Gary Beck Dallaghan @GLBDallaghan 7 hours ago T2 From an educational perspective, wouldn't it be wise to consider when and how to use VR vs standardized patients? #mededchat

Jason Jarzembowski @smallbluecells 7 hours ago RT @mcwreads: Sorry for the late entry of our 4th #MCWCommonRead prompt. How does this passage feel to our #MedEd #mededchat#medstudents a...

Terry Kind, MD MPH @Kind4Kids 7 hours ago @DrKirtyBrown Virtual Valentine’s Day #MedEdChat

Dr. Sateesh Arja @ArjaSateesh 7 hours ago @MedEdChat #mededchat T2 VR might be superior to standardized patients. But communication and interpersonal skills and professionalism can’t be taught or assessed by VR. For these competencies
Standardized patients are better. #meded

Gary Beck Dallaghan @GLBDallaghan 7 hours ago
T2 Admittedly I am a dinosaur about tech, this article suggests VR can help teach empathy. This is a skill that would seem better suited for an actual person to interact with. Thoughts? https://t.co/FT7cCgbG6W #mededchat

Dr Samer Al-Bothaigi @SalemSamer 7 hours ago
Simulation and #VR is a great tool to assess trainee skills gain and to assess trainee preparations before being a real performer #mededchat

MedEd Chat @MedEdChat 7 hours ago
RT @ArjaSateesh: @MedEdChat #mededchat T2 VR might be superior to standardized patients. But communication and interpersonal skills and pro...

Jennifer K. Chen, MD FAAP @DrJenChen4kids 7 hours ago
@MedEdChat #mededchat T2: I’d disagree: you still can’t get the same feeling for human interaction (eg breaking bad news) or tactile physical exam in VR (realistic mannequins are somewhere in between)

Dr Samer Al-Bothaigi @SalemSamer 7 hours ago
RT @DrJenChen4kids: @MedEdChat #mededchat T2: I’d disagree: you still can’t get the same feeling for human interaction (eg breaking bad new...

Gary Beck Dallaghan @GLBDallaghan 7 hours ago
T2 This article raises other limitations to consider for VR....however, I wonder if in time and advances this won’t be as much of a concern https://t.co/RcuZqCAwA5 #mededchat

MedEd Chat @MedEdChat 7 hours ago
RT @DrJenChen4kids: @MedEdChat #mededchat T2: I’d disagree: you still can’t get the same feeling for human interaction (eg breaking bad new...

Dr Samer Al-Bothaigi @SalemSamer 7 hours ago
RT @GLBDallaghan: T2 This article raises other limitations to consider for VR....however, I wonder if in time and advances this won’t be as...

Dr. Kirsten Brown @DrKirtyBrown 7 hours ago
Ugh breaking my rule bc love this topic! Data is mixed 4 performance. 4 #anatomy. But involve stakeholders in any discussion for implementation. #mededchat

AJHaas @ImAJHaas 7 hours ago
RT @MedEdChat: Topic 2: Many think VR is superior to using standardized patients. What are your thoughts? #mededchat #meded
Topic 3: How do we balance education so we aren’t training simulated doctors? #mededchat #meded

Dr. Samer Al-Bothaigi @SalemSamer 7 hours ago
https://t.co/bJCcF11IGL In the future #VR #AI and simulation will also include artificial EMOTIONS #mededchat

MedEd Chat @MedEdChat 7 hours ago
RT @SalemSamer: https://t.co/bJCcF11IGL In the future #VR #AI and simulation will also include artificial EMOTIONS #mededchat

AJHaas @ImAJHaas 7 hours ago
@MedEdChat #MedEdChat T2 this question comes down to asking, who can pass the Turing test: VR or an SP? We’re getting closer. But VR isn’t there yet. The fidelity gap is still palpable enough to influence behavior.

Dr. Kirsten Brown @DrKirtyBrown 7 hours ago
Still going here... it’s imp to know outcomes in interventions. In #Anatomy performance is the same 4 CAI vs non. What is your goal? Is it helpful for learning or the latest fad? #mededchat https://t.co/LvUU5vgvs6

MedEd Chat @MedEdChat 7 hours ago
T3 This question came to mind from an op ed that essentially suggested if we only use simulation to educate then we may end up with simulated doctors. #mededchat

Dr. Samer Al-Bothaigi @SalemSamer 7 hours ago
RT @SalemSamer: https://t.co/bJCcF11IGL In the future #VR #AI and simulation will also include artificial EMOTIONS #mededchat

MedEd Chat @MedEdChat 7 hours ago
RT @DrKirtyBrown: Still going here... it’s imp to know outcomes in interventions. In #Anatomy performance is the same 4 CAI vs non. What i...

Dr. Meadow Maze Good @MeadowGood 7 hours ago
@MedEdChat #MedEdChat T3: This is hard. Surgery number at elbow each year. Inevitably longer residencies or more defined paths so some get more of one thing than the other will have to happen. Simulation is only so good to prepare for real thing. #MedEd #meded

Abhay Dandekar @abhaydandekar 7 hours ago
A3: authentic experiences provide foundation and substrate for entrustment while VR provides critical opportunities to safely practice- mentors and supervisors must balance and model these effectively for learners #MedEd #mededchat @MedEdChat

MedEd Chat @MedEdChat 7 hours ago
RT @abhaydandekar: A3: authentic experiences provide foundation and substrate for entrustment while VR provides critical opportunities to s...
T3: This is hard. Surgery numbers are each year. Inevitably longer residencies or more defined paths so some get more of one thing than the other will have to happen. Simulation is only so good to prepare for real thing. #MedEdChat #meded

RT @abhaydandekar: A3: authentic experiences provide foundation and substrate for entrustment while VR provides critical opportunities to s...

RT @SalemSamer: https://t.co/bJCcF11IGL In the future #VR #AI and simulation will also include artificial EMOTIONS #mededchat

RT @SalemSamer: https://t.co/bJCcF11IGL In the future #VR #AI and simulation will also include artificial EMOTIONS #mededchat

T3: I am a robotic surgeon with very little simulation training. The basics were great with sim but then only real life can prepare you for the difficult cases. I am thankful for my tough training. #MedEdChat #meded

The ability to acquire surgical skills requires consistent practice, and evidence suggests that many of these technical skills can be learnt away from the operating theatre. #mededchat

T3 perhaps the question isn’t an exclusively binary choice between simulation or real experience. But how can simulation blend into everyday practice to learn, maintain, and troubleshoot new scenarios? Even pro golfers take a practice swing. @DrWeinstock@SIMPeds_BCH

T3: I don’t think anyone’s saying VR/sim is going to replace the hours of real patient interaction we get during residency, more that it could be a supplement, eg doing a procedure in VR a few times before attempting the real thing (still w appropriate supervision)

T3: I don’t think anyone’s saying VR/sim is going to replace the hours of real patient interaction...
Dr Samer Al-Bothaigi @SalemSamer6 hours ago
Simulation and #VR are complementary and supportive for #medEd & #surgEd But not a substitutes for real life clinical & operation room learning. #mededchat

Alliance4ClinEd @Alliance4ClinEd6 hours ago
RT @ImAJHaas: @MedEdChat #MedEdChat T3 perhaps the question isn’t an exclusively binary choice between simulation or real experience. But h...

Dr Samer Al-Bothaigi @SalemSamer6 hours ago
RT @DrJenChen4kids: @MedEdChat #mededchat T3: I don’t think anyone’s saying VR/sim is going to replace the hours of real patient interaction...

MedEd Chat @MedEdChat6 hours ago
We have about 5 more minutes left in our discussion. Please feel free to give some final thoughts #meded #mededchat

Abhay Dandekar @abhaydandekar6 hours ago
@MeadowGood This is the challenge - integrating error and improvement based learning in a high stakes environment where outcomes and safety are a must. This is where patient/learner/supervisor must be synchronised @acgme #MedEdChat #MedEd @laxswamy

Dr Samer Al-Bothaigi @SalemSamer6 hours ago
RT @SalemSamer: Simulation and #VR are complementary and supportive for #medEd & #surgEd But not a substitutes for real life clinical & oper...

MedEd Chat @MedEdChat6 hours ago
RT @abhaydandekar: @MeadowGood This is the challenge - integrating error and improvement based learning in a high stakes environment where...

Dr Samer Al-Bothaigi @SalemSamer6 hours ago
RT @admsep: T3 This review article provides best evidence to teach #medstudents reflection....which is where the process needs to start htt...

Dr. Meadow Maze Good @MeadowGood6 hours ago
RT @abhaydandekar: @MeadowGood This is the challenge - integrating error and improvement based learning in a high stakes environment where...

Abhay Dandekar @abhaydandekar6 hours ago
@MedEdChat Just like any tech, we must be thoughtful about how it interfaces with need for human connectivity as learners and leaders - therefore hopefully can be a tool for more relationship building rather than promote isolation @MedEdChat @acgme @AAMCtoday #MedEd #MedEdChat

MedEd Chat @MedEdChat6 hours ago
Join us again next week at 9 pm Thursday. Don't forget to suggest topics by DM or email #meded #mededchat

MedEd Chat @MedEdChat6 hours ago
That's a wrap...I will post the #mededchat transcript tomorrow morning on https://t.co/mJivoKroXx on the Resources page. Thanks everyone for participating! #meded
mindfulness.describe @mindfulnessdes16 hours ago
#meditate #consciousness #hcsmSA #therapy #MedEdChat #attitude https://t.co/zgF46Mbz9T

mindfulness.describe @mindfulnessdes16 hours ago
#MedEdChat #music #photooftheday #meditationmusic #alternativemedicine #CNY https://t.co/zgF46Mbz9T

mindfulness.describe @mindfulnessdes16 hours ago
#NephJC #JACCClub #MedEdChat #mind #session #panic https://t.co/zgF46Mbz9T

mindfulness.describe @mindfulnessdes16 hours ago
#guidedmeditation #grateful #lifequotes #MedEdChat #happy #mechanism https://t.co/zgF46Mbz9T

Dr. Meadow Maze Good @MeadowGood6 hours ago
RT @DrJenChen4kids: @MedEdChat #mededchat T2: I’d disagree: you still can’t get the same feeling for human interaction (eg breaking bad new...

Natalie Langley @nrlangley6 hours ago
RT @ImAJHaas: @MedEdChat #MedEdChat T3 perhaps the question isn’t an exclusively binary choice between simulation or real experience. But h...

MedEdBot @MedEdBot6 hours ago
RT @MedEdChat: That’s a wrap...I will post the #mededchat transcript tomorrow morning on https://t.co/mJivoKroXx on the Resources page. Tha...

AL-BLOWI, WAEL F. M. @ABU_TALEEN826 hours ago
RT @abhaydandekar: A3: authentic experiences provide foundation and substrate for entrustment while VR provides critical opportunities to s...

Lakshman Swamy @laxswamy5 hours ago
RT @abhaydandekar: @MeadowGood This is the challenge - integrating error and improvement based learning in a high stakes environment where...

Bernadette Keefe MD @nxtstop12 hours ago
Last evening’s #mededchat. #medsim #sim #VR #meded https://t.co/IUC8CORGSw

MedEdBot @MedEdBotan hour ago
RT @nxtstop1: Last evening’s #mededchat. #medsim #sim #VR #meded https://t.co/IUC8CORGSw